

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101652,928A
Source: IFW/6
Date Processed by STIC: 2/16/07

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 02/16/2007
PATENT APPLICATION: US/10/652,928A TIME: 15:37:02

Input Set : E:\FINAL Revised Sequence listing.txt
Output Set: N:\CRF4\02162007\J652928A.raw

4 <110> APPLICANT: Chiaur, D.
5 Pagano, M.
6 Latres, E.
8 <120> TITLE OF INVENTION: METHODS TO IDENTIFY COMPOUNDS USEFUL FOR THE TREATMENT
9 OF PROLIFERATIVE AND DIFFERENTIATIVE DISORDERS
W--> 10 <130> FILE REFERENCE: 5914-099-999 (pg. 6)
12 <140> CURRENT APPLICATION NUMBER: US/10/652,928A
13 <141> CURRENT FILING DATE: 2003-08-28
15 <150> PRIOR APPLICATION NUMBER: US/09/385,219A
16 <151> PRIOR FILING DATE: 1999-08-27
18 <150> PRIOR APPLICATION NUMBER: 60/098,355
19 <151> PRIOR FILING DATE: 1998-08-28
21 <150> PRIOR APPLICATION NUMBER: 60/118,568
22 <151> PRIOR FILING DATE: 1999-02-03
24 <150> PRIOR APPLICATION NUMBER: 60/124,449
25 <151> PRIOR FILING DATE: 1999-03-15
27 <160> NUMBER OF SEQ ID NOS: 100
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 2151
33 <212> TYPE: DNA
34 <213> ORGANISM: Homo sapiens
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Nucleotide sequence of human F-box protein FBP1/Beta-TRCP1
39 <400> SEQUENCE: 1
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41 tcggcgatta tggacccggc cgaggcggtg ctgcaagaga aggcactcaa gtttatgaat 120
42 tcctcagaga gagaagactg taataatggc gaaccctcta ggaagataat accagagaag 180
43 aattcactta gacagacata caacagctgt gccagactct gcttaaacca agaaacagta 240
44 tggtagcaa gcactgctat gaagactgag aatttgtgtgg caaaaacaaa acttgccaat 300
45 ggcacttcca gtatgattgt gcccaagcaa cggaaactct cagcaagcta tgaaaaggaa 360
46 aagaactgt gtgtcaataa ctttggcagc tggtaagagt cagatcaagt ggaatttgtg 420
47 gaacatctta tatcccaaatt gtgtcattac caacatgggc acataaactc gtatctaaa 480
48 cctatgtgc agagagattt cataactgct ctgccagctc ggggattgga tcatatcgct 540
49 gagaacattc tgtcataacct ggtatgcaaa tcactatgtg ctgctgaact tgttgcaag 600
50 gaatggtacc gagtgaccc tcgtggcatg ctgtggaaga agcttatcga gagaatggtc 660
51 aggacagatt ctctgtggag aggccctggca gaacgaagag gatggggaca gtatttattc 720
52 aaaaacaaac ctccctgacgg gaatgctcct cccaaactctt ttatagagc actttatcct 780
53 aaaattatac aagacattga gacaatagaa tctaattgga gatgtggaa acatagttta 840
54 cagagaattc actgccaaag tggaaacaagc aaaggagttt actgtttaca gtatgatgat 900
55 cagaaaatag taagcgccct tcgagacaac acaatcaaga tctgggataa aaacacattg 960
56 gaatgcaagc gaattctcac aggcataca ggttcagtcc tctgtctcca gtatgatgag 1020
57 agagtgtatca taacaggatc atcggattcc acggcagag tggatgttggatgtt aaatacagg 1080

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58 gaaatgctaa acacgttcatcaccattgt gaagcagttc tgcacttgcg tttcaataat 1140
 59 ggcatgatgg tgacctgctc ccaaagatcg tccattgctg tatggatat ggcctcccc 1200
 60 actgacatta ccctccggag ggtgctggtc ggacaccgag ctgctgtcaa tggtagac 1260
 61 tttgatgaca agtacattgt ttctgcattt gggatagaa ctataaaggt atgaaacaca 1320
 62 agtacttgtg aattttaag gaccttaaat ggacacaaac gaggcattgc ctgtttgcag 1380
 63 tacagggaca ggctggtagt gagtggctca tctgacaaca ctatcagatt atggacata 1440
 64 gaatgttgtg catgtttacg agtggtagaa ggccatgagg aattggtgcg ttgtattcga 1500
 65 tttgataaca agaggatagt cagtggggcc tatgtggaa aaattaaagt gtggatctt 1560
 66 gtggctgctt tggacccccc tgctcctgca gggacactct gtctacggac ccttggag 1620
 67 cattccggaa gagttttcg actacagttt gatgaattcc agattgtcag tagttcacat 1680
 68 gatgacacaa tcctcatctg ggacttccta aatgateccag ctgccaagc tgaacccccc 1740
 69 cgtccccctt ctcgaacata cacctacatc tccagataaa taaccataca ctgacccat 1800
 70 acttgcggcag gaccattaa agttgcggta ttaacgtat ctgccaatac caggatgagc 1860
 71 aacaacagta acaatcaaac tactgcggcag ttcccttgcg ctagccgagg agcagggctt 1920
 72 tgagactcct gttgggacac agttggctgt cagtcggccc aggacggctt actcagcaca 1980
 73 actgactgct tcagtgctgc tatcagaaga tgtcttat caattgtgaa tgattggAAC 2040
 74 ttttaaacct cccctcctct cctccttca cctctgcacc tagtttttc ccattggttc 2100
 75 cagacaaagg tgacttataa atatatttag tggccgaaaaaaa a 2151
 77 <210> SEQ ID NO: 2
 78 <211> LENGTH: 569
 79 <212> TYPE: PRT
 80 <213> ORGANISM: Homo sapiens
 82 <220> FEATURE:
 83 <223> OTHER INFORMATION: Amino Acid sequence of human F-box protein FBP1/Beta-TRCP1
 85 <400> SEQUENCE: 2
 86 Met Asp Pro Ala Glu Ala Val Leu Gln Glu Lys Ala Leu Lys Phe Met
 87 1 5 10 15
 88 Asn Ser Ser Glu Arg Glu Asp Cys Asn Asn Gly Glu Pro Pro Arg Lys
 89 20 25 30
 90 Ile Ile Pro Glu Lys Asn Ser Leu Arg Gln Thr Tyr Asn Ser Cys Ala
 91 35 40 45
 92 Arg Leu Cys Leu Asn Gln Glu Thr Val Cys Leu Ala Ser Thr Ala Met
 93 50 55 60
 94 Lys Thr Glu Asn Cys Val Ala Lys Thr Lys Leu Ala Asn Gly Thr Ser
 95 65 70 75 80
 96 Ser Met Ile Val Pro Lys Gln Arg Lys Leu Ser Ala Ser Tyr Glu Lys
 97 85 90 95
 98 Glu Lys Glu Leu Cys Val Lys Tyr Phe Glu Gln Trp Ser Glu Ser Asp
 99 100 105 110
 100 Gln Val Glu Phe Val Glu His Leu Ile Ser Gln Met Cys His Tyr Gln
 101 115 120 125
 102 His Gly His Ile Asn Ser Tyr Leu Lys Pro Met Leu Gln Arg Asp Phe
 103 130 135 140
 104 Ile Thr Ala Leu Pro Ala Arg Gly Leu Asp His Ile Ala Glu Asn Ile
 105 145 150 155 160
 106 Leu Ser Tyr Leu Asp Ala Lys Ser Leu Cys Ala Ala Glu Leu Val Cys
 107 165 170 175
 108 Lys Glu Trp Tyr Arg Val Thr Ser Asp Gly Met Leu Trp Lys Lys Leu
 109 180 185 190

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110 Ile Glu Arg Met Val Arg Thr Asp Ser Leu Trp Arg Gly Leu Ala Glu
 111 195 200 205
 112 Arg Arg Gly Trp Gly Gln Tyr Leu Phe Lys Asn Lys Pro Pro Asp Gly
 113 210 215 220
 114 Asn Ala Pro Pro Asn Ser Phe Tyr Arg Ala Leu Tyr Pro Lys Ile Ile
 115 225 230 235 240
 116 Gln Asp Ile Glu Thr Ile Glu Ser Asn Trp Arg Cys Gly Arg His Ser
 117 245 250 255
 118 Leu Gln Arg Ile His Cys Arg Ser Glu Thr Ser Lys Gly Val Tyr Cys
 119 260 265 270
 120 Leu Gln Tyr Asp Asp Gln Lys Ile Val Ser Gly Leu Arg Asp Asn Thr
 121 275 280 285
 122 Ile Lys Ile Trp Asp Lys Asn Thr Leu Glu Cys Lys Arg Ile Leu Thr
 123 290 295 300
 124 Gly His Thr Gly Ser Val Leu Cys Leu Gln Tyr Asp Glu Arg Val Ile
 125 305 310 315 320
 126 Ile Thr Gly Ser Ser Asp Ser Thr Val Arg Val Trp Asp Val Asn Thr
 127 325 330 335
 128 Gly Glu Met Leu Asn Thr Leu Ile His His Cys Glu Ala Val Leu His
 129 340 345 350
 130 Leu Arg Phe Asn Asn Gly Met Met Val Thr Cys Ser Lys Asp Arg Ser
 131 355 360 365
 132 Ile Ala Val Trp Asp Met Ala Ser Pro Thr Asp Ile Thr Leu Arg Arg
 133 370 375 380
 134 Val Leu Val Gly His Arg Ala Ala Val Asn Val Val Asp Phe Asp Asp
 135 385 390 395 400
 136 Lys Tyr Ile Val Ser Ala Ser Gly Asp Arg Thr Ile Lys Val Trp Asn
 137 405 410 415
 138 Thr Ser Thr Cys Glu Phe Val Arg Thr Leu Asn Gly His Lys Arg Gly
 139 420 425 430
 140 Ile Ala Cys Leu Gln Tyr Arg Asp Arg Leu Val Val Ser Gly Ser Ser
 141 435 440 445
 142 Asp Asn Thr Ile Arg Leu Trp Asp Ile Glu Cys Gly Ala Cys Leu Arg
 143 450 455 460
 144 Val Leu Glu Gly His Glu Glu Leu Val Arg Cys Ile Arg Phe Asp Asn
 145 465 470 475 480
 146 Lys Arg Ile Val Ser Gly Ala Tyr Asp Gly Lys Ile Lys Val Trp Asp
 147 485 490 495
 148 Leu Val Ala Ala Leu Asp Pro Arg Ala Pro Ala Gly Thr Leu Cys Leu
 149 500 505 510
 150 Arg Thr Leu Val Glu His Ser Gly Arg Val Phe Arg Leu Gln Phe Asp
 151 515 520 525
 152 Glu Phe Gln Ile Val Ser Ser Ser His Asp Asp Thr Ile Leu Ile Trp
 153 530 535 540
 154 Asp Phe Leu Asn Asp Pro Ala Ala Gln Ala Glu Pro Pro Arg Ser Pro
 155 545 550 555 560
 156 Ser Arg Thr Tyr Thr Tyr Ile Ser Arg
 157 565
 160 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING

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Input Set : E:\FINAL Revised Sequence listing.txt
Output Set: N:\CRF4\02162007\J652928A.raw

161 <211> LENGTH: 1476
 162 <212> TYPE: DNA
 163 <213> ORGANISM: Homo sapiens
 165 <220> FEATURE:
 166 <223> OTHER INFORMATION: Nucleotide sequence of human F-box protein FBP2
 168 <400> SEQUENCE: 3
 169 atggagagaa aggactttga gacatggctt gataacattt ctgttacatt tctttctctg 60
 170 acggacttgc agaaaaatga aactctggat cacctgatta gtctgagtg ggcagtccag 120
 171 ctcaggcatc tctccaataa cctagagact ctcctcaagc gggacttctt ccaaactcctt 180
 172 cccctggagc tcagtttta ttgtttaaaa tggctcgatc ctcagacttt actcacatgc 240
 173 tgccctgtct ctaaacagtg gaataagggtg ataagtgcct gtacagaggtt gtggcagact 300
 174 gcatgtaaaa atttgggctg gcagatagat gattctgttc aggacgctt gcactggaaag 360
 175 aaggtttatt tgaaggctat tttgagaatg aagcaactgg aggaccatga agccttgaa 420
 176 acctcgtcat taattggaca cagtgccaga gtgtatgcac tttaactacaa agatggactt 480
 177 ctctgtacag ggtcaagatga cttgtctgca aagctgtggg atgtgaggac agggcagtgc 540
 178 gtttatggca tccagaccca cacttgcac ggcgttgc ggcgttgc aagatggactt 600
 179 acaggctcct ttgacaacac tttggcttgc tggaaatggc gttccggagc caggacccag 660
 180 cacttcggg ggcacacggg ggcgttgc aactgtggact acaatgtga actggatatac 720
 181 ttggtgagcg gctctgcaga cttcaactgtg aaagtatggg ctttatctgc tggacatgc 780
 182 ctgaacacac tcacccggca cacggaaatgg gtcaccaagg tagtttgca gaagtgcaaa 840
 183 gtcaagtctc tcttgcacag tcctggagac tacatcctct taagtgcaga caaatatgag 900
 184 attaagattt ggccaatttg gagagaaaatc aactgttaagt gcttaaagac attgtctgtc 960
 185 tctgaggata gaagtatctg cctgcagcca agacttcatt ttgatggcaa atacattgtc 1020
 186 ttagtttcag cacttggctt ctaccagtgg gactttgcac gttatgatata tctcagggtc 1080
 187 atcaagactc ctgagatagc aaacttggcc ttgcttggct ttggagatata ctttgcctg 1140
 188 ctgttgaca accgcttacccgtt gacatcatg gacttgcggc cagagggctt gattagtcgc 1200
 189 tggcctctgc cagagtacag ggaatcaaag agaggctaa gcttcctggc aggcgaacat 1260
 190 cctggctgaa tggactggat gggcacaatg acacgggtt ggtcttgcacc accagcatgc 1320
 191 ctgaccacag tattcacctg gtgttgcggc aggagcacgg ctgacaccat gagccaccac 1380
 192 cgctgactga ctttgggtgc cggggctgcg gggtttgggt gcacctctgc ggcacgcgcac 1440
 193 tgcatgaacc aaagttctca cctaattggta tcataca 1476
 195 <210> SEQ ID NO: 4
 196 <211> LENGTH: 422
 197 <212> TYPE: PRT
 198 <213> ORGANISM: Homo sapiens
 200 <220> FEATURE:
 201 <223> OTHER INFORMATION: Amino Acid sequence of human F-box protein FBP2
 204 <400> SEQUENCE: 4
 205 Met Glu Arg Lys Asp Phe Glu Thr Trp Leu Asp Asn Ile Ser Val Thr
 206 1 5 10 15
 207 Phe Leu Ser Leu Thr Asp Leu Gln Lys Asn Glu Thr Leu Asp His Leu
 208 20 25 30
 209 Ile Ser Leu Ser Gly Ala Val Gln Leu Arg His Leu Ser Asn Asn Leu
 210 35 40 45
 211 Glu Thr Leu Leu Lys Arg Asp Phe Leu Lys Leu Leu Pro Leu Glu Leu
 212 50 55 60
 213 Ser Phe Tyr Leu Leu Lys Trp Leu Asp Pro Gln Thr Leu Leu Thr Cys
 214 65 70 75 80
 215 Cys Leu Val Ser Lys Gln Trp Asn Lys Val Ile Ser Ala Cys Thr Glu

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216	85	90	95	
217	Val Trp Gln Thr Ala Cys Lys Asn Leu Gly Trp Gln Ile Asp Asp Ser			
218	100	105	110	
219	Val Gln Asp Ala Leu His Trp Lys Lys Val Tyr Leu Lys Ala Ile Leu			
220	115	120	125	
221	Arg Met Lys Gln Leu Glu Asp His Glu Ala Phe Glu Thr Ser Ser Leu			
222	130	135	140	
223	Ile Gly His Ser Ala Arg Val Tyr Ala Leu Tyr Tyr Lys Asp Gly Leu			
224	145	150	155	160
225	Leu Cys Thr Gly Ser Asp Asp Leu Ser Ala Lys Leu Trp Asp Val Ser			
226	165	170	175	
227	Thr Gly Gln Cys Val Tyr Gly Ile Gln Thr His Thr Cys Ala Ala Val			
228	180	185	190	
229	Lys Phe Asp Glu Gln Lys Leu Val Thr Gly Ser Phe Asp Asn Thr Val			
230	195	200	205	
231	Ala Cys Trp Glu Trp Ser Ser Gly Ala Arg Thr Gln His Phe Arg Gly			
232	210	215	220	
233	His Thr Gly Ala Val Phe Ser Val Asp Tyr Asn Asp Glu Leu Asp Ile			
234	225	230	235	240
235	Leu Val Ser Gly Ser Ala Asp Phe Thr Val Lys Val Trp Ala Leu Ser			
236	245	250	255	
237	Ala Gly Thr Cys Leu Asn Thr Leu Thr Gly His Thr Glu Trp Val Thr			
238	260	265	270	
239	Lys Val Val Leu Gln Lys Cys Lys Val Lys Ser Leu Leu His Ser Pro			
240	275	280	285	
241	Gly Asp Tyr Ile Leu Leu Ser Ala Asp Lys Tyr Glu Ile Lys Ile Trp			
242	290	295	300	
243	Pro Ile Gly Arg Glu Ile Asn Cys Lys Cys Leu Lys Thr Leu Ser Val			
244	305	310	315	320
245	Ser Glu Asp Arg Ser Ile Cys Leu Gln Pro Arg Leu His Phe Asp Gly			
246	325	330	335	
247	Lys Tyr Ile Val Cys Ser Ser Ala Leu Gly Leu Tyr Gln Trp Asp Phe			
248	340	345	350	
249	Ala Ser Tyr Asp Ile Leu Arg Val Ile Lys Thr Pro Glu Ile Ala Asn			
250	355	360	365	
251	Leu Ala Leu Leu Gly Phe Gly Asp Ile Phe Ala Leu Leu Phe Asp Asn			
252	370	375	380	
253	Arg Tyr Leu Tyr Ile Met Asp Leu Arg Thr Glu Ser Leu Ile Ser Arg			
254	385	390	395	400
255	Trp Pro Leu Pro Glu Tyr Arg Glu Ser Lys Arg Gly Ser Ser Phe Leu			
256	405	410	415	
257	Ala Gly Glu His Pro Gly			
258	420			
261	<210> SEQ ID NO: 5			
262	<211> LENGTH: 1407			
263	<212> TYPE: DNA			
264	<213> ORGANISM: Homo sapiens			
266	<220> FEATURE:			
267	<223> OTHER INFORMATION: Nucleotide sequence of human F-box protein FBP3a			

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:26; Xaa Pos. 248,556,630
Seq#:29; N Pos. 13,47,68,88,270
Seq#:30; Xaa Pos. 15,22,28,89
Seq#:37; N Pos. 45,329,332
Seq#:38; Xaa Pos. 110,111
Seq#:51; N Pos. 1733
Seq#:52; Xaa Pos. 576,586
Seq#:53; N Pos. 348
Seq#:54; Xaa Pos. 150,309,340,374
Seq#:59; N Pos. 471

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:63; Line(s) 2771
Seq#:64; Line(s) 2788
Seq#:65; Line(s) 2805
Seq#:66; Line(s) 2822
Seq#:67; Line(s) 2840
Seq#:68; Line(s) 2857
Seq#:69; Line(s) 2874
Seq#:70; Line(s) 2892
Seq#:71; Line(s) 2910
Seq#:72; Line(s) 2928
Seq#:73; Line(s) 2945
Seq#:74; Line(s) 2963
Seq#:75; Line(s) 2981
Seq#:76; Line(s) 2999
Seq#:77; Line(s) 3017
Seq#:78; Line(s) 3038

VERIFICATION SUMMARY

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L:10 M:283 W: Missing Blank Line separator, <130> field identifier
L:1102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:208
M:341 Repeated in SeqNo=26
L:1342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:1362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:1570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
M:341 Repeated in SeqNo=37
L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:96
L:2220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:1680
L:2307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:560
M:341 Repeated in SeqNo=52
L:2333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:300
L:2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:144
M:341 Repeated in SeqNo=54
L:2680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:420